## WHAT IS CLAIMED IS:

A system for ablating solid material, comprising

a laser generating ultra short pulses; and

a medium which conducts said ultra short pulses toward said solid material;

wherein said ultra short pulses self focus in said medium to a power sufficient to ablate said solid material.

2. A system for ablating solid material, comprising:

a laser generating ultra short pulses; and

a medium which conducts said ultra short pulses toward said solid material;

wherein said ultra short pulses self trap in said medium at a power sufficient to ablate said solid material.

3. A method for ablating solid material, comprising:

generating ultra short laser pulses; and

self focusing said ultra short laser pulses in a medium which conducts said ultra short pulses toward said solid material, to a power sufficient to ablate said solid material.

4. A method for ablating solid material, comprising:

generating ultra short laser pulses; and

self trapping said ultra short laser pulses in a medium which conducts said ultra short pulses toward said solid material, at a power sufficient to ablate said solid material.